重组小鼠PDIA6蛋白

Recombinant PDIA6 protein (His tag)

目录号 Catalog Number	552103
同用名 Synonyms	Thioredoxin domain-containing protein 7
种属 Species	Mouse
表达系统 Expression System	E. coli
蛋白编号 Accession	Q922R8
分子量 Molecular Weight	Predictes a molecular mass of 47.55 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 52 kDa band.

产品信息

氨基酸序列 Amino Acid Sequence	MNHKVLYSSS DDVIELTPSN FNREVIQSDG LWLVEFYAPW CGHCQRLTPE WKKAATALKD VVKVGAVNAD KHQSLGGQYG VQGFPTIKIF GANKNKPEDY QGGRTGEAIV DAALSALRQL VKDRLGGRSG GYSSGKQGRG DSSSKKDVVE LTDDTFDKNV LDSEDVWMVE FYAPWCGHCK NLEPEWAAAA TEVKEQTKGK VKLAAVDATV NQVLASRYGI KGFPTIKIFQ KGESPVDYDG GRTRSDIVSR ALDLFSDNAP PPELLEIINE DIAKKTCEEH QLCVVAVLPH ILDTGAAGRN SYLEVLLKLA DKYKKKMWGW LWTEAGAQYE LENALGIGGF GYPAMAAINA RKMKFALLKG SFSEQGINEF LRELSFGRGS TAPVGGGSFP TITPREPWDG KDGELPVEDD IDLSDVELDD LEKDELHHHH HH		
性状 Form	冻干粉末 Lyophilized powder
组分 Formulation	Lyophilized from sterile 25 mM Tris-HCl, 2 mM DTT, 50 mM NaCl, pH 8.0
纯度 Purity	>90%, by SDS-PAGE with Coomassie Brilliant Blue staining.
内毒素 Endotoxin	Not tested.
活性 Activity	Not tested.
稳定性 Stability	Samples are stable for up to twelve months from date of receipt at -70℃
蛋白构建 Protein Construction	DNA encoding 20-440 aa (Q922R8) were fused with C-terminal 6His tag.

保存与运输

复溶 Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
储存 Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
运输 Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

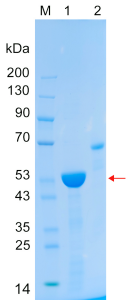
功能描述

研究背景 Background

This recombinant protein corresponds to the mature form of mouse PDIA6 (also known as Thioredoxin domain-containing protein 7), encompassing amino acids 20–440 with the N-terminal signal peptide removed. It functions as a chaperone that inhibits aggregation of misfolded proteins and negatively regulates the unfolded protein response (UPR) by binding to UPR sensors such as ERN1 and EIF2AK3, thereby inactivating their signaling. PDIA6 also catalyzes the rearrangement of disulfide bonds in proteins and plays a role in platelet aggregation and activation in response to agonists like convulxin, collagen, and thrombin. This construct is designed for functional studies in vitro.

验证数据

SDS-PAGE



Recombinant PDIA6 protein (His tag) SDS-PAGE
M: Marker; Lane 1: PDIA6; Lane 2: BSA